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# State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

JUN 26 2014

,		V	VV Department of
API <u>47</u> 39 <u>06351 W</u> County KAN	JAWHA Di	strict BIGESAMI	<b>Py</b> nanental Protection
Quad BLUE CREEK Pad Name	Fic	eld/Pool Name	
Farm name JOHN & PEGGY BARKER REVOCAB		ell Number WF	
Operator (as registered with the OOG) RAVEN RIDGI	E ENERGY, LLC		
Address 3230 PENNSYLVANIA AVENUE City	CHARLESTON	State WV	Zip 25302
As Drilled location NAD 83/UTM Attach an as-c	drilled plat, profile view, and d	•	
Landing Point of Curve Northing N/A	Easting		
Bottom Hole Northing N/A	Easting	N/A	
Elevation (ft) 811' GL Type of We	ell ■New □ Existing	Type of Report	□Interim <b>B</b> Final
Permit Type   Deviated   Horizontal   Hor	izontal 6A 🚪 Vertical	Depth Type	□ Deep
Type of Operation □ Convert □ Deepen ■ Drill	□ Plug Back □ Redrillin	g 🗆 Rework	■ Stimulate
Well Type □ Brine Disposal □ CBM ■ Gas ■ Oil □	Secondary Recovery   Solut	tion Mining 🗆 St	orage   Other
Type of Completion ■ Single □ Multiple Fluids Pr  Drilled with □ Cable ■ Rotary	roduced Brine BGas (	⊐ NGL 🛔 Oil	Other
Drilling Media Surface hole ■ Air □ Mud □ Fresh  Production hole ■ Air □ Mud □ Fresh Water □ E		e □ Air 🖪 Muc	I □ Fresh Water □ Brine
Mud Type(s) and Additive(s) SOAP			
Date permit issued 3/28/2013 Date drilling or	ommenced 4/4/2013	Date drilling	ceased 4/10/2013
Date completion activities began 1/16/2014	Date completion activiti	es ceased	2/1/2014
Verbal plugging (Y/N)N Date permission gra	. N1/A	Granted by	
Please note: Operator is required to submit a plugging app	plication within 5 days of verb	al permission to p	olug
Freshwater depth(s) ft150'	_ Open mine(s) (Y/N) dept	hs	N
Salt water depth(s) ft 1,100' - 1,600'	_ Void(s) encountered (Y/N		N
Coal depth(s) ftNONE OF RECORD	_ Cavern(s) encountered (Y		N
Is coal being mined in area (Y/N)N		,	
			Reviewed by:

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API 47-39	06351	Farm	name	GY BARKER R	EVOCABLE TRUST_W	ell number_V	VHITE 2A	
CASING STRINGS Conductor	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*	
	14 1/4"	13 3/8"	30'	NEW	J55 - 42LBS		YES - CEMENTED BY RIG	
Surface	12 1/4"	9 5/8"	377'	NEW	LS - 17LBS		YES	
Coal							169	
Intermediate 1	8 3/4"	7"	1,771'	NEW	J55 - 23LBS			
Intermediate 2					200 2000	<del> </del>	YES	
Intermediate 3								
Production	6 1/4"	4 1/2"	-22004	NEW	J-55 - 10.5 LBS.			
Tubing			2000'			-		
Packer type and depth set								
Comment Details								

CEMENT DATA Conductor	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield ( ft ³/sks)	Volume (ft.²)	Cement Top (MD)	WOC (hrs)
	CLASS I	10 - RIG				GROUND LEVEL	8
Surface	CLASS I	140	15.6	1.18	165.2	GROUND LEVEL	8
Coal							
Intermediate I	CLASS I	355	15.6	1.18	418.9	GROUND LEVEL	
Intermediate 2					710.0	GROOMB LEVEL	8
Intermediate 3							
Production	CLASS I	150	14.2	1.29	400.5	0001111001001	
Tubing		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	17.2	1.29	193.5	GROUND LEVEL	8
Drillers TD (ft) Deepest format Plug back proc	zion penetrated Weir		Plug	gers TD (ft) 201 back to (ft) Nor	ne .		
Kick off depth	(ft)ine logs run	■ caliper ■ d	ensity 🗆 (	deviated/directio		uction perature □sonic	
Well cored D		Conventional	Sidewall		ere cuttings co	ollected □ Yes ■ N	
	IE CENTRALIZER	PLACEMENT	SED FOR EAC	CH CASING ST	TRING		
WAS WELL CO	OMPLETED AS SI	IOT HOLE 0	Yes <b>a</b> No	DETAILS			
	OMPLETED OPEN						
WERE TRACE	RS USED □ Yes	■ No TYP					

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Farm name\_JOHN & PEGGY BARKER REVOCABLE TRUST\_Well number\_WHITE 2A

### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	1/17/2014	1971'	1832'	16	WEIR
					VVLIIV
-					

Please insert additional pages as applicable.

### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	1/17/14	25	2828	3811	1363	15,000	500	0
							***************************************	
-								
	L							

Please insert additional pages as applicable.

Address 286 Weatherford Blvd. Buckhannon Zip 26201 City WV State Cementing Company Universal Well Services Address 5 Hall Run Road Buckhannon City Zip 26201 WV State Stimulating Company Universal Well Services Address 5 Hall Run Road Buckhannon City State WV Zip 26201 Please insert additional pages as applicable.

r lease insert additional pages as applicable.

Completed by Danielle N. Boggs		Telephone	304-344-9291	
Signatura David A. Boggo	Title	Operations Manager		12/11/2013

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry



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RECEIVED
Office of Oil and Gas

## State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

JUN 26 2014

	WV Department of
API <u>47</u> - <u>39</u> - <u>06354</u> W County KANAWHA	Environmental Protectio
DI LIE ODEEK	
Farm name_TEX SEABOLT	Well Number WHITE 1A
Operator (as registered with the OOG) RAVEN RIDGE ENER	
Address 3230 PENNSYLVANIA AVENUE City CHARL	ESTON State WV Zip 25302
As Drilled location NAD 83/UTM Attach an as-drilled pla Top hole Northing N/A	t, profile view, and deviation survey  Easting NA
Landing Point of Curve Northing N/A	Easting N/A
Bottom Hole Northing N/A	Easting N/A
Elevation (ft) 839' GL Type of Well New	w □ Existing Type of Report □Interim ■Final
Permit Type   Deviated   Horizontal   Horizontal 6	A 🖪 Vertical Depth Type 🗆 Deep 🗂 Shallow
Type of Operation □ Convert □ Deepen ■ Drill □ Plug	Back □ Redrilling □ Rework □ Stimulate
Well Type □ Brine Disposal □ CBM ■ Gas ■ Oil □ Seconda	ry Recovery
Drilled with □ Cable ■ Rotary  Drilling Media Surface hole ■ Air □ Mud □ Fresh Water  Production hole ■ Air □ Mud □ Fresh Water □ Brine  Mud Type(s) and Additive(s)  SOAP	Intermediate hole □ Air ■ Mud □ Fresh Water □ Brine
Date permit issued 3/15/2013 Date drilling commence  Date completion activities began 1/17/2014 Da  Verbal plugging (Y/N) N Date permission granted	te completion activities ceased 2/1/2014
Please note: Operator is required to submit a plugging application	within 5 days of verbal permission to plug
Freshwater depth(s) ftOpe	n mine(s) (Y/N) depths
Salt water depth(s) ft 1,100' - 1,600' Voice	d(s) encountered (Y/N) depthsN
Coal depth(s) ft NONE OF RECORD Cave	ern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N	
	Reviewed by:

API 47- 39	06354	Farm name_TEX SEABOLT			Well number_WHITE 1A				
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	:	Basket Depth(s)	Did cem	ent circulate (Y/N) le details below*
Conductor	14 1/4"	13 3/8"	30'	NEW	J55	- 42LBS	- 35=(3)		EMENTED BY RIC
Surface	12 1/4"	9 5/8"	377'	NEW	LS	- 17LBS	120'	+:	YES
Coal							120		ILO
Intermediate 1	8 3/4"	7"	1,769'	NEW	155	- 23LBS	335'		V=0
Intermediate 2			.,	11217	1 000	- 2000	335	<del>                                      </del>	YES
Intermediate 3								<del> </del>	
Production	6 1/4"	4 1/2"	2,200	NEW	100	40.51.00		<del></del>	
Tubing	0 174	7 1/2	· · · · · · · · · · · · · · · · · · ·	4	J55 -	10.5LBS			
Packer type and d	enth set		2016						
<b>,</b>				<u> </u>					
Comment Details									
CEMENT DATA	Class/Type of Cement	Numbe of Sack			Yield ft <sup>3</sup> /sks)	Volume	e Ceme		WOC (hrs)
Conductor	CLASS I	10 - RI	3				GROUND		8 8
Surface	CLASS I	160	15.	6	1.18	188.8	GROUND	LEVEL	12
Coal					······································				
Intermediate 1	CLASS I	295	15.0	6	1.18	348.1	GROUND	LEVEL	8
Intermediate 2									0
Intermediate 3									
Production	CLASS I	150	14,2	2	1.29	193.5	GROUND	LEVEL	8
Tubing					1.20	130.0	GROOND	LLVEL	8
Plug back pro-	tion penetrated cedure	WEIR			ΓD (ft) <u>201</u> c to (ft)	50'			
Kick off depth (ft)  Check all wireline logs run  Check all wireline logs									
Well cored	Yes 🖪 No	<ul> <li>Convention</li> </ul>	onal Side	wall	W	ere cutting	s collected 🗆	Yes n	No
Section 2 xes a 140									
DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING									
WAS WELL C	COMPLETED A	AS SHOT HOLE	□ Yes 🛔	No D	ETAILS				
WAS WELL C	COMPLETED C	PEN HOLE?	□Yes ■ N	lo DET	AILS _				
WERE TRACE	ERS USED 🗆	Yes ■ No	TYPE OF T	RACER(S)	USED				

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Farm name\_TEX SEABOLT

\_Well number\_WHITE 1A

### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	1/17/2014	1842'	2004'	18	WEIR
					VVE/II\
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Please insert additional pages as applicable.

### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	1/18/14	20	3875	3326	1835	20,000	497	0
<b></b>		***************************************						
-								
					·····			
		T						

Please insert additional pages as applicable.

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	_ 06354	Farm	name TEX SE	EABOLT			*** 1.		\\/\LITE 1	Λ
			name		<del></del> -		Well	numbe	r VVIIIE 17	4
PRODUCING	FORMATION	<u>(S)</u>	<b>DEPTHS</b>							
WEIR		1964' - 2017'	TVD			) (T				
				1 V D			MIT	,		
•					•					
	-									
Please insert ac	dditional pages	as applicable.								
GAS TEST	<b>■ Build up</b> 1	∃ Drawdown	□ Open Flow		OIL TE	EST 🖹	Flow	□ Pump	)	
SHUT-IN PRE	SSURE Sur	face 100	psi Bott	om Hole		nsi	DITRA	TION (	ገር ጥርርጥ	12
OPEN FLOW	Gas	Oil	NGI		Water	por	DOIG,			nrs
	8 mc	fpd 1	NGL bpd	bpd	water	bnd	GAS	MEASU mated	JRED BY	a Dilet
			-	<b>-</b> •					- Office	L Fliot
LITHOLOGY/	TOP	воттом		BOTTON						
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN	FT DE	SCRIBE I	ROCK TY	PE AND	RECORD QUA	NTITYAND
CAND	NAME TVD	TVD	MD	MD						L, GAS, H2S, ETC)
SAND	0	1128'	0			······				
SALT SAND	1128'	1357'		<u> </u>						
SAND MAXTON	1357'	1418'								
PENCIL CAVE	1418'	1555'	<u> </u>				······			
LITTLE LIME	1555' 1572'	1572'	-							
BIG LIME	1572	1577' 1740'								
BIG INJUN	1740'	1766'				····		***************************************		
SAND	1766'	1964'								
WEIR	1964'	2017'					-			
SAND	2017'	2058'								
						<del></del>				
								······		
Dloons import ad	4:4:1	1: 11								
	ditional pages a	• •								
	ctor Petty Oilfiel	d Services								
Address 7752 Ly	ynn Avenue		City	Hamlin			_ State	WV	Zip 25523	3
ogging Comp	any Weatherford	I								
Address 286 We	eatherford Blvd.		City	Buckhanno	n		<b>a.</b> .	14/1/		
			City	Backianio			_ State	WV	Zip _26201	
	npany Universal	Well Services								
Address 5 Hall R	Run Road		City	Buckhanno	n		_ State	WV	Zip 26201	
Stimulating Cor	many Univers	al Well Service	s						•	
Address 5 Hall R			City	Buckhanno	- n		α. ·	\A/\ /	~, 00004	
	ditional pages as	s applicable.	City	2454 Idi II 10	·· <u> </u>		_ State	WV_	Zip _26201	
$\bigcirc$										
	Danielle N. Bogg	gs _	····	***************************************	Tele	phone	304-344	-9291		
lignature	ule N. I	Logges	Title O	perations Mar	nager			Date 6/	26/2014	